

**§ 421.184**

**BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUB-CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium chlorinated	
Arsenic .....	27.530	12.250
Lead .....	5.531	2.634
Zinc .....	19.230	8.034
Fluoride .....	461.000	262.100

(c) Germanium hydrolysis filtrate.

**BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUB-CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium hydrolyzed	
Arsenic .....	39.440	17.550
Lead .....	7.925	3.774
Zinc .....	27.550	11.510
Fluoride .....	660.500	375.500

(d) Acid wash and rinse water.

**BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUB-CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium washed	
Arsenic .....	325.50	144.80
Lead .....	65.40	31.14
Zinc .....	227.40	94.99
Fluoride .....	5,450.00	3,099.00

(e) Gallium hydrolysis filtrate.

**40 CFR Ch. I (7–1–00 Edition)**

**BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUB-CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium hydrolyzed	
Arsenic .....	70.450	31.350
Lead .....	14.160	6.742
Zinc .....	49.220	20.560
Fluoride .....	1,180.000	670.800

(f) Solvent extraction raffinate.

**BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUB-CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of gallium produced by solvent extraction	
Arsenic .....	39.330	17.500
Lead .....	7.904	3.764
Zinc .....	27.480	11.480
Fluoride .....	658.700	374.500

**§ 421.184 Standards of performance for new sources.**

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Still liquor.

**NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium chlorinated	
Arsenic .....	131.70	58.59
Lead .....	26.46	12.60
Zinc .....	91.98	38.43
Fluoride .....	2,205.00	1,254.00
Total suspended solids .....	2,583.00	1,229.00
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(b) Chlorinator wet air pollution control.

## Environmental Protection Agency

§ 421.185

### NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium chlorinated	
Arsenic .....	27.530	12.250
Lead .....	5.531	2.634
Zinc .....	19.230	8.034
Fluoride .....	461.000	262.100
Total suspended solids .....	540.000	256.800
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(c) Germanium hydrolysis filtrate.

### NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium hydrolyzed	
Arsenic .....	39.440	17.550
Lead .....	7.925	3.774
Zinc .....	27.550	11.510
Fluoride .....	660.500	375.500
Total suspended solids .....	773.700	368.000
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(d) Acid wash and rinse water.

### NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium washed	
Arsenic .....	325.50	144.80
Lead .....	65.40	31.14
Zinc .....	227.40	94.99
Fluoride .....	5,450.00	3,099.00
Total suspended solids .....	6,385.00	3,037.00
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(e) Gallium hydrolysis filtrate.

### NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of gallium hydrolyzed	
Arsenic .....	70.450	31.350
Lead .....	14.160	6.742
Zinc .....	49.220	20.560
Fluoride .....	1,180.000	670.800
Total suspended solids .....	1,382.000	657.300
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(f) Solvent extraction raffinate.

### NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of gallium pro- duced by solvent extrac- tion	
Arsenic .....	39.330	17.500
Lead .....	7.904	3.764
Zinc .....	27.480	11.480
Fluoride .....	658.700	374.500
Total suspended solids .....	771.600	367.000
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

### § 421.185 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary and secondary germanium and gallium process wastewater introduced into a POTW must not exceed the following values:

(a) Still liquor.

### PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium chlorinated	
Arsenic .....	131.70	58.59